BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineeer
Byatarayanapura Division
B.B.M.P.

DRAFT TENDER SCHEDULE

Issued to : **Original / Duplicate**

NAME OF WORK: Package No. 02 (Package Consists of 05 Works Rs. 1000.00 Lakhs)

1. Improvement of roads, drains and other allied works at Sindhi College road and surrounding areas in ward No. 09 Kempapura.
2. Improvement of roads, drains and other allied works at F block Sahakaranagara and surrounding areas in ward No. 09 Hebbala Kempapura.
3. Improvement of roads, drains and other allied works at Sanjeevininagar and surrounding areas in ward No. 09 Hebbala Kempapura.
4. Improvement of roads, drains and other allied works at Cauvery Enclave, Sampige road, Thindlu village, Indian Express layout, Dhanalakshmi layout and surrounding areas in ward No. 10 Byatarayanapura.
5. Improvement of roads, drains and other allied works at Byatarayanapura Village and surrounding areas in ward No. 10 Byatarayanapura.

Sl. No.	Quantity	Description	Unit	Rate In Figures	Amount	Rates In Words
1	12572.58	Removing and resetting of footpath slab	Sqm	235.00	2954556.00	Rupees Two Hundred Thirty Five Only
2	4713.00	Removing and resetting of kerb stone	Rmtr	118.00	556134.00	Rupees One Hundred Eighteen Only
3	6311.10	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m	Cum	266.20	1680015.00	Rupees Two Hundred Sixty Six and Twenty Paise Only
4	96.70	Providing and laying in Reinforced cement concrete for all	Cum	7840.80	758205.00	Rupees Seven Thousand
5	586.47	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates	Cum	6838.70	4010692.00	Rupees Six Thousand Eight Hundred Thirty Eight and Seventy Paise Only
6	13.31	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. All other type of structures	tonne	86912.10	1156800.00	Rupees Eighty Six Thousand Nine Hundred Twelve and Ten Paise Only
7	3661.02	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface waterincluding of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.	Sqm	1287.00	4711733.00	Rupees One Thousand Two Hundred Eighty Seven Only

Sl. No.	Quantity	Description	Unit	Rate In Figures	Amount	Rates In Words
8	387.15	Providing and Fixing pre cast covering Slab 230mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge.	Sqm	5037.00	1950075.00	Rupees Five Thousand Thirty Seven Only
9	1707.50	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	1354.10	2312126.00	Rupees One Thousand Three Hundred Fifty Four and Ten Paise Only
10	2828.85	Providing ruled pointing to coursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as per specification.	Sqm	328.90	930409.00	Rupees Three Hundred Twenty Eight and Ninety Paise Only
11	293.54	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:2:4 Using 20 mm nominal size graded crushed coarse aggregates	Cum	6867.30	2015827.00	Rupees Six Thousand Eight Hundred Sixty Seven and Thirty Paise Only
12	70.46	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	7650.83	539077.00	Rupees Seven Thousand Six Hundred Fifty and Eighty Three Paise Only
13	2749.78	Providing and fixing pre cast solid cement concrete Kerb Stones made out of M20 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading, unloading, lead and lift transportion etc., complete as directed by the Engineer in charge of the work(from finish concrete and no painting to be done)	Nos	507.00	1394138.00	Rupees Five Hundred Seven Only
14	2082.50	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces. MORTH Chapter 803	Sqm	119.90	249692.00	Rupees One Hundred Nineteen and Ninety Paise Only
15	2306.30	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately.	Cum	619.30	1428292.00	Rupees Six Hundred Nineteen and Thirty Paise Only

Sl. No.	Quantity	Description	Unit	Rate In Figures	Amount	Rates In Words
16	3103.44	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.	Cum	104.50	324309.00	Rupees One Hundred Four and Fifty Paise Only
17	466.82	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 14:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 140 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 7 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing	Cum	5412.00	2526430.00	Rupees Five Thousand Four Hundred Twelve Only
18	1348.63	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	Cum	2814.90	3796259.00	Rupees Two Thousand Eight Hundred Fourteen and Ninety Paise Only
19	752.55	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates	Cum	5871.80	4418823.00	Rupees Five Thousand Eight Hundred Seventy One and Eighty Paise Only
20	1200.14	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.	Cum	7429.40	8916320.00	Rupees Seven Thousand Four Hundred Twenty Nine and Forty Paise Only
21	15699.30	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg/m2 using mechanical means MORTH Specification No. 502	Sqm	45.10	708038.00	Rupees Forty Five and Ten Paise Only

Sl. No.	Quantity	Description	Unit	Rate In Figures	Amount	Rates In Words
22	805.53	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects.	Cum	10393.90	8372598.00	Rupees Ten Thousand Three Hundred Ninety Three and Ninety Paise Only
23	46314.50	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503	Sqm	13.20	611351.00	Rupees Thirteen and Twenty Paise Only
24	1853.68	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects	Cum	12049.40	22335732.00	Rupees Twelve Thousand Forty Nine and Forty Paise Only
25	1729.85	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803	Sqm	583.00	1008503.00	Rupees Five Hundred Eighty Three Only
26	10845.17	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)	Cum	148.50	1610508.00	Rupees One Hundred Forty Eight and Fifty Paise Only
27	13881.83	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km	t.km	198.00	2748602.00	Rupees One Hundred Ninety Eight Only
				Total	**84025244.00**	

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Note:

1 Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of quantities (refer: ITB Clause 7.2 and CC Clause 33.2)

2 Unit rates and prices shall be quoted by the Tender in Indian rupees.

3 Where there is a discrepancy between the rate in figures and words the rates in words will govern (ITB Clause 19.1(a)

4 Where there is a discrepancy between the unit rate and the line item total resulting from multyplying the unit rate by quantity the unit rate quoted shall govern (ITB Clause 19.1(b))